

## APPENDIX B

### LIST OF MCTL ACRONYMS AND ABBREVIATIONS

°C	degree Celsius	ABS	antilock braking system
γ	gamma	AC	alternating current
λ	lambda	ACC	Air Combat Command (USAF)
μ	micron	ACCESS	advanced cosmic-ray composition experiment for space station
μA	microampere	ACHR	acetylcholine receptor
μF	microfarad	ACIPS	advanced collective integrated protection system
μJ	microjoule	ACM	attitude control module
μJ/cm	microjoules per square centimeter	ACT	active control technology
μm	micrometer	ACT/FHS	active control technology/flying helicopter simulator
μsec	microsecond	ACTD	advanced concept technology demonstration
Ω	ohm	ACTIVE	advanced control technologies for integrated vehicles
1-D	one-dimensional	ACTS	Advanced Communication Technologies and Services
2-D	two-dimensional	ACVs	air cushion vehicles
3-D	three-dimensional	AD	air defense
3P	prefragmented, programmable, proximity	AdAPT	Adaptive Aircraft Performance Technology
A	ampere	ADN	ammonium dinitramide
Å	angstrom	ADN	ammonium dinitrimide
A&EM	armaments and energetic materials	ADP	adenosine diphosphate
A/D	analog to digital	ADS	advanced distributed system
A/O	acoustic/optic	ADS	air defense suppression
A/sec	amperes per second	ADSRC	Advanced Distributed Simulation Research Consortium
AAAV	advanced amphibious assault vehicle	ADTS	asynchronous digital transmission system
AAN	Army After Next	AEDC	Arnold Engineering Development Center
ABA	American Bankers Association	AEOS	advanced electro-optical system
ABATE	ACTS Broadband Aeronautical Terminal and Experiment	AES	advanced encryption standard
ABCS	Army Battle Command System	AES	all-electric ship
ABE	autonomous Benthic explorer	AES	auger electron microscope
ABEC	Annular Bearing Engineers Committee		
ABIS	Advanced Battlespace Information System		
ABL	airborne laser		

AETWG	Armaments and Energetic Materials Technology Working Group	AHS	automated highway system
AEW	aircraft early warning	AI	artificial intelligence
AFATDS	Advanced Field Artillery Tactical Data System	AIAA	American Institute of Aeronautics and Astronautics, Inc.
AFB	Air Force Base	AICPA	American Institute of Certified Public Accountant
AFBMA	Anti-Friction Bearing Manufacturers Association	AIM	Advanced INFOSE Machine
AFC	alkaline fuel cell	AIM	Air Intercept Missile
AFIS	Automatic Fingerprint Identification System	AIM™	Advanced INFOSEC Machine
AFIT	Air Force Institute of Technology	AIN	aluminum indium nitride
AFM	atomic force microscopy	AIP	air-independent power
AFOSR	Air Force Office of Scientific Research	AIP	air-independent propulsion
AFOSR/EOARD	Air Force Office of Scientific Research/European Office of Aerospace Research and Development	ASIS	American Iron and Steel Institute
AFRL	Air Force Research Laboratory	AIST	Agency of Industrial Science and Technology (Japan)
AFRL/PR	Air Force Research Laboratory/Propulsion Directorate	AIWS	advanced interdiction weapon system
AFS	atomic frequency standard	AJ	anti-jam
AFSAB	Air Force Science Advisory Board	AL	Albania
AFSOC	Air Force Special Operations Command	Al-Li	aluminum-lithium
AFSPC	Air Force Space Command	ALPS	assembly-line processing system
AFV	armored fighting vehicle	ALU	arithmetic logic unit
AG	Australia Group	AM	antimaterial
Ag	silver	Am	americium
AGARD	Advisory Group for Aerospace Research and Development	AM	amplitude modulation
AGB	advanced gun barrel	AMB	active magnetic bearings
AgGaSe <sub>2</sub>	silver gallium selenide	AM0	air mass zero
AGL	above ground level	AM1.5	air mass 1.5
AGMA	American Gear Manufacturers Association	AMC	Army Materiel Command
AGR	advanced gas reactor	AMC	Air Mobility Command (USAF)
AGT	aboveground test	AMCOM	U.S. Army Aviation and Missile Command
AGT	advanced gun technology	AMD	antimissile defense
Ah	ampere-hour	AMGS	advanced material gun system
AHRS	attitude and heading reference system	AMMO	azidomethylmethyloxetane
		AMP	adenosine mono-phosphate
		AMR	amorphous magnetoresistive
		AMRAAM	advanced medium-range air-to-air missile
		AMRL	Aeronautical and Maritime Research Laboratory (Australia)
		AMR	amorphous magnetoresistive

AMTEC	alkali metal thermal-to-electric converter	ARPA	Advanced Research Project Agency
AMTI	airborne moving target indication	ARTEMIS	Advanced Relay and Technology Mission Satellite
amu	atomic mass unit	As	arsenide
AN	ammonium nitrate	A-S	antispoofing
ANL	Argonne National Laboratory	AS4/T-500	carbon filter designations
ANMO	azidonitratomethyloxetane	ASARS	Advanced Synthetic Aperture Radar Systems
ANN	artificial neural network	ASC	Accredited Standard Committee
ANNG	Anti-Navire Nouvelle Génération	ASCM	advanced spaceborne computer modular
ANSI	American National Standards Institute	ASCM	antiship cruise missile
ANTEC	alkali-metal thermal-to-electrical converter	ASDL	Aerospace Systems Design Laboratory (Georgia Institute of Technology)
AOC	air operations center	ASDL	asymmetrical digital subscriber line
AP	access point	ASE	amplified spontaneous emission
AP	ammonium perchlorate	a-Si	amorphous silicon
AP	antipersonnel	ASIC	application-specific integrated circuit
AP	armor piercing	AS-15s	Russian cruise missile
APAM	antipersonnel/antimaterial	ASMD	antiship missile defense
APB	antimatter particle beam	ASRI	Australian Space Research Institute
APC	armored personnel carrier	ASRP	Adaptive Spectral Reconnaissance Program
APDU	Application Protocol Data Units	ASTAMIDS	airborne stand-off minefields detection system
APFSDS	armor piercing, fin-stabilized, discarding sabot	ASTM	American Society for Testing and Materials
APG	Aberdeen Proving Ground (Maryland)	ASTMP	Army Science and Technology Master Plan
APG	automated password generator	ASTWG	Aeronautics Systems Technology Working Group
APGM	autonomous precision-guided munition	ASUW	antisurface warfare
API	application program interface	ASW	antisubmarine warfare
APOD	aerial port of debarkation	AT	antitank
APPN	IBM's Advanced Peer-to-Peer Networking®	AT	Austria
APS	active protection system	ATA	Advanced Technology Attachment
APS	advanced photon source	ATAC	Advance Technology Aircraft
APS	American Physical Society	ATACMS	Army Tactical Missile System
AR	Argentina	ATACS	advanced tank cannon system
Ar	argon		
ARDEC	Army Research, Development, and Engineering Center		
ArF	argon fluoride		
ARL	Army Research Laboratory		
ARO	Army Research Office		

ATAR	Advanced Technology Assessment Report	bar	0.987 atmospheres
ATC	air traffic control	BASE	beta alumni solid electrolyte
ATCC	American type culture collection	BASS	bulk avalanche semiconductor switch
ATD	advanced technology demonstration	BAT	brilliant antitank
ATD	Advanced Technology Development	BATES	Battlefield Artillery Target Engagement System
ATE	automatic test equipment	BCIS	battlefield combat identification system
ATF	automatic terrain following	BCMO	bischloromethyloxetane
ATGW	antitank guided weapon	BDA	battle damage assessment
ATIC	advanced thin ionization calorimeter	BDNPA	bis(2,2-dinitropropyl) formal and acetal
ATIP	Asia Technical Information Program	BDNPF	bis(2,2-dinitropropyl) formal
ATIRCM	advanced tactical infrared countermeasures	BDU	battle dress uniform
ATL	advanced tactical laser	BE	Belgium
ATM	asynchronous transfer mode	BEAMTAP	Broadband and Efficient Adaptive Method for TTD Array Processing
ATM	automated teller machine	BEC	Bose-Einstein condensates
ATP	adenosine triphosphate	BER	bit error rate
ATR	air turbo ramjet	BFV	Bradley fighting vehicle
ATR	automatic target recognition	BG	Bulgaria
AU	Australia	BGO	bismuth germanate
Au	gold	BHEGA	bis-2-hydroxyethylglycolamide
AUTODIN	Automatic Digital Network	BHP	brake horsepower
AUV	autonomous underwater vehicle	BICMOS	bipolar complementary metal oxide semiconductor
AUV	autonomous unmanned vehicle	BIDS	biological integrated detection system
AVIRIS	airborne visible/infrared imaging spectrometer	BIFF	battlefield identification friend or foe
AVLIS	atomic vapor laser isotope separation system	BIT	broadband information technology
AVS	automated vapor sampling	BIT	bismuth titanate
AW	advanced weapons systems	BITA	butylene imine trimesamide (polyfunctional aziridine amides with isophthalic, trimesic)
AWACS	Airborne Warning and Control System	BITE	built-in-test-equipment
B	magnetic induction	BITS	binary digits
B/C	biological and chemical	BITWG	Biological Technology Working Group
Ba	barium	BJT	bipolar junction transistor
BACT	best available control technology	BL	biosafety level
BAMO	bis(azidomethyl)oxetane	BLOS	beyond line of sight
BAPO	phosphine oxide	BLSR	bidirectional line-switched ring

BLU 80/B	Bigeye Weapon	C2I	command, control, and intelligence
BMD	Ballistic Missile Defense	C3	command, control, and communications
BMDO	Ballistic Missile Defense Organization (now MDA)	C3CM	command, control, and communications countermeasures
BN	boron nitride	C3I	command, control, communications, and intelligence
BNCP	cis-bis(5-nitrotetrazolato) penta-amminecobalt (iii) perchlorate	C4	command, control, communications, and computation
BNMO	bis(nitratomethyl)oxetane	C4I	command, control, communications, computers, and intelligence
BNO	butadienitrileoxide	C4I2	command, control, communications, computing, intelligence, and information systems
BOBBA 8	bis(2-methyl aziridiny)-2-(2-hydroxypropanoxy)propylamino phosphine oxide	C4IFTW	C4I for the warrior
BOL	beginning of life	C4ISR	C4I, surveillance, and reconnaissance
BOOM	binocular omnidirectional-oriented monitor	CA	Canada
BOSS	bistable optically controlled semiconductor switch	CA	Certification Authority
BP	black powder	CAA	Clean Air Act
bps	bits per second	CAA	Concepts Analysis Agency (Army)
BR	bacteriorhodopsin	CAC	common access card
BR	Brazil	CAD	chemical agent detector
BRDF	bidirectional reflectance distribution function	CAD	computer-aided design
BRM	biological response modifier	CAE	common application environment
BRWL	bistatic radar for weapon location	CAE	computer-aided engineering
BSC	biological safety cabinet	CAEP	China Academy of Engineering Physics
BTJ	buried triple junction	CAEPE	Centre d'Achèvement et d'Essais des Propulseurs et Engins
BTTN	butanetrioltrinitrate	CAG	carrier aircraft group
BTU	British thermal unit	CAI	computer-aided inspection
BTU/ft <sup>2</sup>	BTU per square foot	cal	calorie
BuNENA	butyl-2-nitratoethyl nitramine	cal/cm2	calories per square centimeter
BV	battlefield visualization	cal/cm2-sec	calories per square centimeter second
BVP	blood volume pressure	CAM	chemical agent monitor
BVR	beyond visual range	CAM	computer-aided manufacturing
BW	biological weapon(s)	CANDU	Canadian deuterium uranium (reactor)
BWB	blended wing/body	CAP	combat air patrol
BWC	Biological Weapons Convention	CAPI	cryptographic application interface
BWO	backward wave oscillator	CARC	chemical agent resistant coating
BWR	boiling water reactor		
C	Celsius temperature; centigrade		
C/A	course acquisition		
C2	command and control		

CASA	Construcciones Aeronauticas S.A. (Spain)	CCMS	Committee on the Challenges of Modern Society (NATO)
CAS	Chemical Abstract Service	CCS	common channeling signaling
CAS	close air support	CCTV	closed-circuit television
CAS	computer-aided servicing	CCW	counter-clockwise
CAS/M	computer-aided servicing/ maintenance	Cd	cadmium
CAT	computer-aided testing	CD	compact disk
CAT	computerized axial tomography	CD	Compton diode
CATOX	catalytic oxidation	CD	critical diameter
CATT	controlled avalanche transit-time triode	CD	critical dimension
CATTB	Component Advanced Technology Test Bed	CDC	Centers for Disease Control and Prevention
CAV	common aero vehicle	CdHgTe	cadmium mercury telluride
CAVE	computer automatic virtual environment	CDISS	Centre for Defence and International Security Studies
CB	coherent bremsstrahlung	CDL	chemical double layer
CB	chemical and biological	CDMA	code division multiple access
CBC	cipher block chaining	CDPD	Cellular Digital Packet Data
CBDCOM	Chemical Biological Defense Command (Army)	CD-ROM	compact-disc read-only memory
CBEFF	Common Biometric Exchange File Format	CDs	Compton diodes
CBM	conventional ballistic missile	CDT	critical developing technology
c-BN	cubic boron nitride	CdTe	cadmium telluride
CBPS	chemically and biologically protected shelter	CDU	control and display unit
CBRIF	Chemical Biological Incident Response Force	CdZnTe	cadmium zinc telluride
CBRN	Chemical, biological, nuclear and radiological weapons	CE	chemical energy
CBW	chemical and biological warfare	CE	computing element
CC	combinatorial chemistry	CEA	Commissariat à l'Énergie Atomique (The French Atomic Energy Commission)
c c	cubic centimeters	CEC	California Energy Commission
C-C	carbon-carbon	CEC	Cooperative Engagement Capability
CCD	charge-coupled device	CECOM	Communications-Electronics Command (Army)
CCD	closed-cycle diesel	CEM	computational electromagnetics
CCITT	International Consultative Committee for Telephone and Telegraph	CEP	circular error probable; circle of equal probability
CCL	Commerce Control List	CEPT	Conference of Postal and Telecommunications Administration
CCM	computer-controlled machines	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CCM	counter-countermeasures		

CEREM	Le Centre d'Études et de Recherches sur les Matériaux	CIRST	Computer Incident Response Team
CERT	Computer Emergency Response Team	CIS	copper indium diselenide
CFB	cipher feedback	CISC	complex instruction set computing
CFC	chlorofluorocarbon	CIWG	Combat Identification Working Group
CFD	computational fluid dynamics	CJ	commodity jurisdiction
CFHAT	composite fire hazard analysis tool	CJCSI	Chairman, Joint Chiefs of Staff Instruction
CFIT	controlled flight into terrain	CKEM	compact kinetic energy missile
CFL	coupled ferrite lines	CL	Chile
CFRP	carbon-fiber-reinforced plastic	CL-14	5,7-diamino-4,6-dinitrobenzo-furazane-1-oxide
CGA	column grid array	CL-20	hexanitrohexaazaisowurtzitane
CGA	computer-generated actor	CL-20/HNIW	hexanitro-hexaazaisowurtzitane
CH	Switzerland	CLC	cholesteric liquid crystal
CHEMEX	chemical exchange process	CLO	counter low observable
CHER	catalytic heat exchanger/reactor	CLOS	command-line-of-sight
CHES	Cornell High-Energy Synchrotron Source	CLT	critical layer thickness
CHIPS	Clearing House Interbank Payments System	CM	configuration management
CHPS	Combat Hybrid Power Systems	CM	countermeasures
CHSSI	Common High Performance Computing Software Support Initiative	cm	centimeter
CHTWG	Chemical Technology Working Group	CMC	ceramic matrix composite
CIAC	Computer Incident Advisory Capability	CMIP	common management information protocol
CIAM	Central Institute of Aviation Motors (Russia)	CMIS	Center for Mathematical and Information Sciences (Australia)
CIC	combat information center	CMISE	common management information service element
CICA	Canadian Institute of Chartered Accountants	CMM	coordinate measuring machine
CID	charge injection device	CMOL	CMIP over logical link control
CID	combat identification	CMOS	complementary metal oxide semiconductor
CIDDS	combat identification dismounted soldier	CMOT	common management information service over TCP/IP
CIF3	chlorine trifluoride	CMOT	complementary metal oxide technology
CINO	Office of the Chief Inspector of Naval Ordnance (United Kingdom)	CMP	chemical mechanical planarization
CIP	cold isostatic pressing	CMST	common management information services over TCP/IP
CIP	cold isostatic press	CMU	Carnegie Mellon University
CIP	carbonyl iron powder	CMVP	Cryptographic Module Validation Program
CIRSC	Computer Security Incident Response Capability	cmW	centimeter wave
		CMW	centimeter wave

CN	China	CPB	charged particle beam
CNA	Center for Naval Analyses	CPCI	Computer program configuration item
CNC	computer numeric(al) control	CPE	customer premises equipment
CNE	Centre National d'Études Spatiales (France Space Agency)	CPS	Certificate Policy Statement
CNM	customer network management	CPU	central processing unit
CNO	Chief of Naval Operations	CR	channeling radiation
CNRM	Centre National de Recherches Météorologiques	CR	Czech Republic
CNRS	Centre National de Recherche Scientifique	CRAD	contract research and development
CNS	central nervous system	CRDA	commercial research and development agreement
CNT	carbon nanotube	CREATIS	Centre de Recherche et d'Applications en Traitement de l'Image et du Signal (Center for Research and Applications in Image and Signal Processing)
CNT	Counterspace	CREB	cyclic AMP response element binding
CNTD	controlled nucleation thermal decomposition	CRÈME	cosmic ray effects on micro-electronics
CO	carbon monoxide	CRL	Communications Research Laboratory (Japan)
CO	central office	CRM	corrosion-related magnetic
CO	Colombia	CRT	cathode-ray tube
CO	commanding officer	CRW	Canard Rotor Wing
CO <sub>2</sub>	carbon dioxide	CRYPTO	cryptographic
Co-60	Cobalt-60	CS	Czechoslovakia
COBRA	collection of broadcasts from remote assets	CSE	Communications Security Establishment
COC	combat operations center	CSERIAC	Crew System Ergonomics Information Analysis Center
COCOM	Coordinating Committee for Multilateral Strategic Export Controls	CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)
COI	Communities of interest	CSIS	Center for Secure Information Systems (George Mason University)
COIL	chemical oxygen iodine lasers	CSNSM	Centre de Spectrométrie Nucléaire et de Spectrométrie de Masse
COLEX	column exchange	CSP	chip-scale packaging
COM/SATCOM	communications/satellite communications	CSU	channel service unit
COMINT	communication intelligence	CT	computerized tomography
COMM	communication	CT	Computed Tomography
COMSEC	communications security	CTA	column and grid array
CONUS	Continental United States	CTBT	Comprehensive Test Ban Treaty
CO-OP	Consortium for Optical and Optoelectronic Technologies in Computing		
COP	common operational picture		
COTS	commercial off-the-shelf		
CP	2-(5-cyanotetrazolato) penta-amine-cobalt (iii) perchlorate		



CTE	coefficient of thermal expansion	DCC	digital cross-connect system
CTIS	central tire inflation system	DCE	distributed computing environment
CTP	common tactical picture	DCID	Director Central Intelligence Directive
CTP	composite theoretical performance	DCN	data communication networks
CTP	computer theoretical performance	DCOR	deterministic combat model code
CTPB	carboxyl-terminated polybutadiene	DCS	digital cross-connect systems
CTWS	case telescoped weapon system	DCT	Developing Critical Technologies
Cu	copper	DCTP	defense critical technologies plan
CU	Cuba	DD/DT	deuterium deuterium/deuterium tritium
CURV	cable-controlled underwater recovery vehicle	DDL	data description language
CVD	chemical vapor deposition	DDOS	distributed denial of service
CVDS	continuous variable dynamic system	DDR&E	Director of Defense Research & Engineering
CW	chemical warfare	DDT	deflagration to detonation transition
CW	chemical weapon(s)	DDUS	Deep Depth UNDEX Simulator
CW	clockwise	DE	directed energy
CW	continuous wave	DE	discrete event
CWC	Chemical Weapons Convention	DE	Germany (ISO)
CXRD	coaxial X-ray diode	DE ATAC	Directed Energy Advanced Technology Aircraft
CZ	convergence zone	DEA	data encryption algorithm
D	deuterium	DECADE	DNA X-ray simulator program
D*	spectral detectivity	DECON	decontamination
D/A	digital to analog	DEDS	discrete event dynamic system
D <sub>2</sub> O	deuterium oxide (heavy water)	deg/hr	degrees/hour
DAB-P	digital audio baseband processor	DEMO	demonstration
DAC	digital to analog converter	DEMP	dispersed electromagnetic pulse
DAF	diaminofarazan	DERA	Defence Evaluation and Research Agency (United Kingdom)
DARO	Defense Airborne Reconnaissance Office	DERA	Defence Evaluation and Research Agency (UK)
DARPA	Defense Advanced Research Projects Agency	DES	data encryption standard
DAS	defensive aid suite	DES	distributed energy store
DATB	diaminotrinitrobenzene	DET	distributed explosive
d B	decibel	DEW	directed energy weapon
DBC	direct bonded copper	DF	deuterium fluoride
DBD	delayed breakdown device	DF	difluor: methyl phosphonyl difluoride
dBm	decibel referred to 1 milliwatt	DFAD	digital feature analysis data
DBR	distributed Bragg reflectance	DFE	diferrocenylethane
DBRN	data-based referenced navigation		
DC	direct current		

DFE	direction-finding equipment	DML	data modification language
DGA	Direction Générale de l'Armement (French Defense Procurement Agency)	DMS	Defense Messaging System
DGNSS	differential global navigation satellite system	DMS	diluted magnetic semiconductors
DGPS	differential Global Positioning System	DMSO	dimethyl sulfoxide
DGZ	designated ground zero	DN	bearing bore in mm multiplied by speed in rpm
DH	Diffie-Hellman	DNA	Defense Nuclear Agency (now part of DTRA)
DHG	oxalohydroxamic acid	DNA	deoxyribonucleic acid
DHHS	Department of Health and Human Services	DNGU	dinitroglycoluril
DHV	Demonstrateur Hyper Veloce (Aerospatiale missile)	DNHR	dynamic nonhierarchical routing
DIA	Defense Information Agency	DNS	Doppler Navigation System
DIAL	differential absorption LIDAR	DNS	Domain Name System
DIC	dispositif d'identification au combat	DNSS	Defense Navigation Satellite System
DIMES	Delft Institute of Microelectronics and Submicron Technology (Netherlands)	DOB	depth of burst
DINGU	dinitroglycoluril	DOC	Department of Commerce
DIPAM	diaminohexanitrobiphenyl	DoD	Department of Defense
DIRCM	defensive infrared countermeasures	DODD	Department of Defense Directive
DIS	distributed interactive simulation	DoDI	Department of Defense Instruction
DISA	Defense Information Systems Agency	DOE	Department of Energy
DIVX	digital video express	DOF	depth of focus
DIW	detection, identification, warning	DOJ	Department of Justice
DK	Denmark	DOS	Denial of Service [attack]
DKTWG	Directed Energy and Kinetic Energy Technology Working Group	DOS	Department of State
DL	Discrete logarithm	DOT	Department of Transportation
DLC	diamond-like carbon	DQ	detection quotient
DLC	digital loop carrier	DRAM	dynamic random access memory
DLC	drop loop carrier	DRBG	Deterministic random bit generator
DLL	dynamic link library	DRDO	Defence Research and Development Organisation (India)
DLR	Deutsche Forschungsanstalt für Luft und Raumfahrt (German Aerospace Center)	DRE	Defence Research Establishment
DLR	German Aerospace Center	DREAM	directed radio-frequency energy-assessment model
DME	distance-measuring equipment	DRES	Defense Research Establishment Suffield (Canada)
		DREV	Defence Research Establishment Valcartier (Canada)
		DRM	dead-reckoning module
		DRM	Digital Rights Management
		ds	digital signature
		DS	digital signals
		DS	directionally solidified

DS-0	digital signal level 0	E	energy
DSA	digital signature algorithm	$e$	limit of $\left(1 + \frac{1}{n}\right)^n$ as n approaches infinity
DSA/DH	Digital Signature Algorithm – Diffie-Hellman	e.b.b	equivalent blackbody
DS-I	digital signal level 1	E/O	electro/optical
DSL	digital subscriber line	EA	electronic attack
DSMAC	digital scene matching area correlation	EAA	Export Administration Act
DSMP	Defense Meteorological Satellite Program	EADS	European Aeronautic Defense and Space Company
DS-N	digital signal hierarchy	EAL	evaluation assurance level
DSP	Defense Support Program	EAR	Export Administration Regulations
DSP	digital signal processor (processing)	EB	electron beam
DSRO	Defense Science Research Organization (India)	EBDW	electron-beam direct writer
DSS	Digital Signature Standard	e-beam	electron beam
DSTL	Developing Science and Technologies List	EBPVD	electron-beam physical vapor deposition
DSTO	Defense Science and Technology Organization (Australia)	EBR-II	Experimental Breeder Reactor II
DSU	data service unit	EC	electronics and countermeasures
DSV	deep submersible vehicle	EC	European Commission
DT	deuterium tritium	ECAAM	electrochemically assisted arc machine
DTAP	Defense Technology Area Plan	ECAE	equal channel angular extension
DTE	data terminal equipment	E-Cash	electronic cash
DTED	digital terrain elevation data	ECB	Electronic Codebook
DTG	dry-tuned gyroscope	ECC	elliptic curve cryptography
DTG	dynamically tuned gyroscope	ECCM	electronic counter-counter measures
DTIC	Defense Technical Information Center	ECCN	Export Control Classification Number
DTO	Defense Technology Objective	ECD	Eurocopter Deutschland
DTR	data transfer rate	ECDSA	elliptic curve digital signature algorithm
DTRA	Defense Threat Reduction Agency	ECM	electronic countermeasure
DU	depleted uranium	ECMWF	European Centre for Medium-Range Weather Forecasts
DU	digitized unit	ECR	electron cyclotron resonance
DUV	deep ultraviolet	ECS	electrostatic chucks
DVD	digital video disk	ED	electric drive
DZ	Algeria	EDFA	erbium doped/fiber amplifier
		EDM	electrical discharge machines
		EDO	extended data out

EDP	electric dipole potential	EMI	electromagnetic interference
EDP	electric dipole-produced	EMIS	electromagnetic isotope separation
EEC	European Economic Community	EMK	electromagnetic
EEG	electroencephalogram	EML	electromagnetic launch
EELV	evolved expendable launch vehicle	EMP	electromagnetic pulse
EEPROM	electrically erasable programmable read-only memory	EMS	Energy-Management System
EES	Escrowed Encryption Standard	EMK	electromagnetic weapon
EFF	Electronic Frontier Foundation	ENA	energetic neutral atom
EFP	explosively formed penetrator	ENTWG	Energy Systems Technology Working Group
EFPI	extrinsic Fabry-Perot interferometer	EO	electro-optical
EG	Egypt	E <sub>o</sub>	sublimation energy
EGI	embedded Global Positioning System inertial	EO-1	Earth Orbiter-1
EGM	Earth gravitational model	EO-2	Earth Orbiter-2
EGNOS	European Geostationary Navigation Overlay Service	EOCCM	electro-optical counter-counter-measures
EHF	extremely high frequency	EOCM	electro-optical countermeasures
EIA	Electronic Industries Association	EOD	explosive ordnance disposal
EID	electromagnetic induction detection	EOL	end-of-life
ELAPS	equivalent laminated plate solution	EOS	equation of state
ELEX	electro-exchange	EP	electronic protection
ELF	extremely low frequency	EPA	Environmental Protection Agency
ELFE	extremely low-frequency electro-magnetic	EPC	electronic power conditioner
ELFE	extremely low-frequency emission	EPLRS	enhanced position location reporting system
ELINT	electronic intelligence	EPR	electron paramagnetic resonance
ELPRS	enhanced position location reporting system	EPRI	Electric Power Research Institute
ELTWG	Electronics Technology Working Group	EPROM	erasable programmable read-only memory
EM	electromagnetic	EPS	environmental protection system
EMC	electromagnetic compatibility	ER	electro-rheological
EMCDB	elastomer modified-cost double-based propellants	ERA	explosive reactive armor
EMD	engineering and manufacturing development	ERC	Energy Research Corporation
EMHD	explosive magnetohydrodynamic	ERCIM	European Research Consortium for Information and Mathematics
EMHDG	explosive magnetohydrodynamic generator	ERINT	Extended Range Interceptor
EMI	electromagnetic induction	EROS	Earth Resources Observation Systems
EMI	electromagnetic interface	ERP	effective radiated power
		ERS	electrically reconfigurable ship
		ERS-1	Earth Research Satellite
		ES	electronic suppression

ESA	electronic safe and arm	EW	electronic warfare
ESA	European Space Agency		
ESD	electrostatic discharge	F	Fahrenheit
ESF	energy storage flywheel	F	farad
ESG	electrostatically supported gyroscope	f/max	maximum frequency
ESL	equivalent series inductance	f/min	minimum frequency
ESM	extended scattering mode	F3I	form, fit, function, and interchangeable
ESM	electronic support measure	FA	functional areas
ESO	European Southern Observatory	FAA	Federal Aviation Administration
ESPRIT	European Strategic Program on Research in Information Technology	FAC	fast-acting closure
		FAC	forward air controller
ESR	equivalent series resistance	FACE	Futur Avion de Combat Européen (French aircraft)
ESRP	European Supersonic Research Program	FACETS	flywheel attitude, control, energy transmission, and storage
ESSM	Evolved Sea Sparrow Missile	FADEC	full authority digital electronic engine controls
ET	electrothermal	FADS	flush air data aystem
ETC	electrothermal-chemical	FAE	fuel-air explosives
ETDL	Electronic Technology and Devices Laboratory	FALCON	fuel-air line charge ordnance neutralizer
ETH	Eidgenössisches Technische Hochschule	FAR	false acceptance rate
ETK	electrothermal gun	FAR	false-alarm rate
ETNO	European Telecommunications Network Operators	FAST	field-adaptable systems technology
ETS	Engineering Test Satellite	FBCB2	Force XXI Battle Command Brigade-and-Below
ETS	engineering test stand	FBI	Federal Bureau of Investigation
ETSI	European Telecommunications Standards Institute	FBL	fly-by-light
EU	Eötvös unit	FBL/PBW	fly-by-light/power-by-wire
EU	European Union	FBM	fleet ballistic missile
EUCLIDES	Extreme UV Concept Lithography Development System	FBW	fly-by-wire
EURESCOM	European Institute for Research and Strategic Studies in Telecommunications	FCC	Federal Communications Commission
EUT	end user terminal	FCG	flux-compression generator
EUV	extreme ultraviolet	FCS	flight control system
EUVL	extreme ultraviolet lithography	FCV	future combat vehicle
eV	electron volt	FDA	Food and Drug Administration
EV	electronic vehicle	FDDI	fast digital data interconnect
EVA	extravehicular activity	FDIR	fault detection, isolation, and recovery
EVM	environmental vapor monitor	FDM	frequency division multiplexing
		FDTD	finite difference time domain

FEA	finite element analysis	FOV	field of view
FEBA	forward edge of the battle area	FPA	focal plane array
FEFO	bis-2-fluoro-2,2-dinitroethylformal	FPD	flame photometric detector
FEL	free electron laser	FPD	flat panel display
FEMA	Federal Emergency Management Agency	FPE	fluoropolyester
FET	field effect transistor	FPGA	field programmable gate-array
FFI	Forsvarets Forsknings Institut	FPKI	Federal Public Key Infrastructure
FFRDC	Federally Funded Research and Development Center	fps	feet per second
FFT	fast Fourier transform	FR	France
FGAN	Forschungsgesellschaft für Angewandte Naturwissenschaften e.V.	FRP	Federal Radionavigation Plan
FHA	Federal Highway Administration	FRP	fiber-reinforced plastic
FHS	flying helicopter simulator	FRR	false-rejection rate
FI	Finland	FSAP	full-spectrum attack protection
FIB	focused ion beam	fsec	femtosecond
FID	flame ionization detector	FSCS	Future Scout and Cavalry System
FIFV	future infantry fighting vehicle	FSS	frequency selective surface
FIPS	Federal Information Processing Standard	FSU	Former Soviet Union
FIR	far infrared	FTA	Foreign Technology Assessment
FIS	field ion spectrometry	FTIR	Fourier transform infrared
FIV	future infantry vehicle	FTIT	fan turbine inlet temperature
FLAR	forward-looking automotive radar	ft-lb	foot-pound
FL	field LADAR	FTW	for the warrior
FLC	ferroelectric liquid crystal	FVTD	finite volume time domain
FLIR	forward-looking infrared radar	FWHM	full width at half maximum
FLS	forward-looking sonar	FXR	flash X ray
FM	field manual	FY	Fiscal Year
FM	frequency modulation	g	gram
FMM	Fast Multi-pole Method	g	measure of acceleration of gravity [32 feet per second <sup>2</sup> (9.8 m/second <sup>2</sup> )]
fMRI	functional magnetic resonance imaging	G agents	nerve agents
FMS	foreign military sales	G&G	geodetic and geophysical
FMS	force modeling and simulation	G-7	group of seven industrial nations
FOC	final operating capability	G-8	G-7 nations plus Russia
FOG	fiber-optic gyroscope	Ga	gallium
FOGM	fiber-optic guided missile	GA	tabun (nerve agent)
FOPEN	foliage penetration	GaAs	gallium arsenide
FORTÉ	fast on-orbit recording of transient events	GABA	gamma-aminobutyric acid
		Gal	Galileo
		GAM	GPS-aided munition
		GaN	gallium nitride

GAO	General Accounting Office	GPA	one megabar
GAP	glycidylazide polymer	GPC	general-purpose computer
GAUSS	Global Augmentation for Satellite Systems	GPIC	general-purpose integrated circuit
GB	sarin (nerve agent)	GPR	ground-penetrating radar
Gbits/s	gigabits per second	GPS	Global Positioning System
GBL	ground-based laser	GPtS	Global Positioning and Time System
GBq	gigabecquerel	GR	Greece
GC	gas chromatography	GRACE	Gravity Recovery and Climate Experiment
GCCS	global command and control system	GRC	John H. Glenn Research Center at Lewis Field [NASA (formerly the Lewis Research Center)]
GCHQ	Government Communications Headquarters, UK	GRMS	gravity root mean square
GD	soman (nerve agent)	GRP	glass-reinforced plastic
GDP	gross domestic product	GS	ground systems
GDSS	group decision support system	GSA	General Services Administration
Ge	germanium	GSAC	gas seal auxiliary closure
GE	Germany	GSC-IS	Government Smart Card-Interoperability Specification
GEO	geosynchronous Earth orbit	GSFC	Goddard Space Flight Center
GeV	giga electron volts	GSI	Gesellschaft für Schwerionenforschung mbH
GF	Galis Field	GSLV	geosynchronous satellite launch vehicle
GFE	government-furnished equipment	GSM	global system for mobile communication
GFLOPS	giga (10 <sup>9</sup> ) floating point operations per second	GSR	galvanic skin response
GHz	gigahertz (10 <sup>9</sup> hertz)	GST	glutathione S-transferase
GHz/sec	gigahertz per second	GSTAMIDS	ground standoff mine detection system
GIG	global information grid	GSTS	Ground Station Tailoring System
GIS	Geographic Information System	GSTWG	Ground Systems Technology Working Group
GLONASS	Global Orbiting Navigation Satellite System (Russian)	GTD	geometric theory of diffraction
GLONASST	GLONASS system time	GTE	gas turbine engines
GM	Geodetic Mission (GEOSAT)	GTN	General Technology Note
gm	gram	GTO	gate turn-off
GMCC	ground mobile command center	GTO	geosynchronous transfer orbit
GMP	good manufacturing practices	GUI	graphical user interface
GMR	giant magnetoresistive	GVC	ground combat vehicle
GMTI	ground moving-target indication	GW	gigawatt
GNSS	Global Navigation Satellite System		
GOPS	giga (billion) operations per second		
GOST	Gosudarstvennyi Standard		
GP	genetic polymorphism		
GPa	gigapascals		

Gy	Gray (gy) is a unit of absorbed dose of ionizing radiation equal to 1 joule per kilogram of absorber	HF	hydrogen fluoride
		HF	hydrofluoric acid
		HFCEG	helical flux compression generator
		HFET	heterostructure field-effect transistor
H	hour	HfF <sub>4</sub>	hafnium fluoride
HA	hemagglutinin	HFIP	hexafluoroisopropanol
HAB	high-altitude burst	HFSW	high-frequency sky wave
HAN	hydroxylamine nitrate	Hg	mercury
HAN	hydroxylammonium nitrate	HgCdTe	mercury cadmium telluride
HAP	hazardous air pollutant	HHS	Health and Human Services
HAP	hydroxylammonium perchlorate	HIIS	heavy ions in space
HARV	high alpha research vehicle	HIL	hardware-in-the-loop
HAWK	homing all the way killer	HIP	hot isostatic pressing
HAZMAT	hazardous materials	HIP	hot isostatic press
HBIW	hexabenzyl-hexaazaisowurtzitane	HIPER-KIDS	high-performance kiosk and desktop system
HBO	hyperbaric oxygen	HIPPI	high-performance peripheral interface
HBT	hetero-bipolar transistors	HITL	hardware-in-the-loop
HCI	human computer interface	HISTEC	high-stability engine-control (Boeing program)
HDDR	high-density digital recording	HK	Hong Kong
HDL	high-level development language	HLA	high-level architecture
HDO	singly deuterated water	HLA	major histo compatibility
HDTV	high-definition television	HLOS	horizontal line of sight
HE	high explosive	HMAC	hashing for message authentication
HE	human engineering	HMD	helmet-mounted display
HEAP	Human Effects Advisory Panel	HMMWV	high-mobility multipurpose wheeled vehicle
HEAT	high explosive antitank	HMO	health maintenance organization
HEDM	high-energy density material	HMX	cyclotetramethylene-tetranitramine
HEL	high-energy laser	HMX	Octogen
HEMP	high electromagnetic pulse	HNF	hydrazinium nitroformate
HEMP	high-altitude electromagnetic pulse	HNDT	holographic nondestructive testing
HEMT	high electron mobility transistor	HNIW	hexanitro-hexaazaisowurtzitane
HEO	highly elliptical orbit	HNO <sub>3</sub>	nitric acid
HEPA	high-efficiency particulate air	HNS	hexanitrostilbene
HERF	high-energy radio frequency	HOB	height of burst
HEST	High-Explosive Simulation Technique	HOE	holographic optical element
HET	horizontal emplacement test	hp	horsepower
HEU	highly enriched uranium	HPC	high-performance computing
HEV	hybrid-electric vehicles		
Hf	Hafnium (isomer)		
HF	high frequency		



HPC	high-pressure compressor	HU	Hungary
HPCMO	High Performance Computer Modernization Office	HUD	head-up display
HPCN	high-performance computing and networking	HVAC	heating, ventilation, and air conditioning
HPE	high-power electronics	HVI	hypervelocity impact
HPG	homopolar generator	HVOF	high-velocity oxy-fuel
HPI	high-power impulse	HVWS	Hypervelocity Weapon System
HPL	high-power laser	HWR	heavy water reactor
HPM	high-power microwave	HY	high yield
HPSLT	High-Power Semiconductor Laser Technology Program	HYPR	Hypersonic Propulsion Technology Program (Japan)
HPVI	hypervelocity impact	HySET	Hydrocarbon Scramjet Engine Technology
HRG	hemispherical resonator gyroscope	HYSWAS	high-yield small waterplane area ship
HRR	high-range resolution	Hz	hertz
HRR-GMTI	high-range resolution ground moving- target indication	I/O	input/output circuit
HR-SEM	high-resolution scanning electron microscope	I2	image intensifier
HSCT	high-speed civil transport	I2L	integrated injection logic
HSD	high strength to density	I <sup>2</sup>	image intensification
HSDB	high-speed data bus	I <sup>2</sup> R	power
HSE	high-speed encryption	IA	Information Age
HSI	human systems integration	IA	information assurance
HSI	human systems interface	IAB	Internet Activities Board
HSI	hyperspectral imagery	IACR	International Association for Cryptographic Research
HSP	heat shock protein	IADS	integrated air defense system
HSR	High-Speed Research Program (NASA)	IAEA	International Atomic Energy Agency
HST	Hubble Space Telescope	IAEL	International Atomic Energy List
HST	hypersonic transport	IAG	International Association of Geodesy
HSTAMIDS	hand-held standoff mine detection system	IAI	Israeli Aircraft Industries
HTGR	high-temperature gas-cooled reactor	IALA	International Association of Lighthouse Authorities
HTL	host technical liaison	IBIA	International Biometric Industry Association
HTML	hypertext markup language	IBM	International Business Machines
HTO	singly tritiated water	IC	Iceland [IS - (ISO)]
HTPB	hydroxyl-terminated polybutadiene	IC	integrated circuit
HTS	high-temperature superconducting	IC	intelligence community
HTS	high-temperature synthesis		
HTT	horizontal tunnel test		
HTU	handheld terminal unit		

IC2–SIP	International Command and Control Systems Interoperability Project	IHPRPT	Integrated High Payoff Rocket Propulsion Technology
ICAO	International Civil Aviation Organization	IHPTET	Integrated High Performance Turbine Engine Technology
ICBM	intercontinental ballistic missile	IIL	International Industrial List
ICD	interface control document	IL	Industrial List
ICE	integrated command environment	ILL	Institut Max von Laue–Paul Langevin
ICO	Intelligent Combat Outpost	ILS	instrument landing system
ICR	intercooled recuperated	IM	insensitive munitions
ICRGT	intercooled recuperated gas turbine	IM	instant messaging
ICS	intercommunications system	IM&C	information system management and control
ICT	(Fraunhofer) Institute for Chemical Technology (Germany)	IMEC	Industrial Microelectronics Center
ICt	incapacitating concentration time	IMETS	Integrated Meteorological System
ID	identification	IMF	intelligent minefield
ID	incapacitating dose	IMINT	Imagery Intelligence
ID	Indonesia	IMPATT	impact avalanche transit-time triode
IDE	integrated drive electronics	IMS	ion mobility spectrometry
IDEA	International Data Encryption Algorithm	IMT	industrial materials and technology
IDL	interactive data language	IMU	inertial measurement unit
IDS	Intrusion detection system	in.	inch
IE	Ireland	IN	India
IEEE	Institute of Electrical and Electronic Engineers	In	indium
IEMP	internal EMP	INAV	integrated navigation
IETF	Internet Engineering Task Force	INCITS	International Committee for Information Technology Standards
IF	intermediate frequency	IND	improvised nuclear device
IFF	identification friend or foe	INFO COM	information communications
IFOV	instantaneous field of view	INFO EXCH	information exchange
IFS	indirect fire system	INFOSEC	information security
IFSAR	interferometric synthetic aperture radar	INFOSEC TWG	Information Security Technology Working Group
IFV	infantry fighting vehicle	INFOWAR	information warfare
IGEB	Interagency GPS Executive Board	InGaAs	indium gallium arsenide
IGBT	insulated gate bipolar transit	INMARSAT	International Marine/Maritime Satellite
IGBT	isolated gate bipolar transistor	INMS	integrated network management systems
IHAS	integrated helmet assembly subsystem	InP	indium phosphorus
IHCE	Institute of High Current Electronics (Russia)	INPASS	INS Passenger Accelerated Service System
IHE	insensitive high explosive		

INS	Immigration and Nationalization Service	ISDN	integrated services digital network
INS	inertial navigation system	ISIT	Fraunhofer Institute for Silicon Technology
InSb	indium antimonide	ISL	France-German Research Institute of Saint Louis
Internet	international computer network	ISO	International Standards Organization
INU	inertial navigation unit	ISP	Internet Service Provider
IO	information operations	I <sub>sp</sub>	specific impulse
IOM	Institute of Medicine	ISR	intelligence, surveillance, and reconnaissance
Ip	impulse	ISS	integrated sensor suite
IP	Information processing	ISS	International Space Station
IP	internet protocol	ISSMO	International Society of Structural and Multidisciplinary Optimization
IP	isostatic pressing	ISU	inertial sensor unit
IPC	intermediate-pressure compressor	IT	information technologies
IPFN	integrated pulse-forming network	IT	Italy
IPN	Institut de Physique Nucléaire	I <sub>t</sub>	total impulse
IPR	impulse response	ITAG	inertial terrain-aided guidance
IPS	integrated power system	ITAR	International Traffic in Arms Regulations
IQ	Iraq	ITL	NIST's Information Technology Laboratory
IR	infrared	ITRF	International Terrestrial Reference Frame
IR	Iran	ITS	Intelligent Transport System
IR&D	independent research and development	ITSEC	Information Technolog Securit Evaluation Criteria
IRA	impulse radiating antenna	ITTWG	Information Technology Technology Working Group
IRAD	independent research and development	ITU	International Telecommunications Union
IRCM	infrared countermeasures	IV	Initialization Vector
IRCOM	Institut de Recherche en Communications Optiques et Microondes	IW	information warfare
IRE	Institute of Radioengineering and Electronics (Russia)	IWG	Interagency Working Group
IRFPA	infrared focal plane array	IXC	interexchange carrier
IRIG	Interrange Instrumentation Group	J	joule
IRSS	Infrared Search System	J/cc	joules per cubic centimeter
IRST	infrared search and track	J/gm	joules/gram
IRU	inertial reference unit	J/kg	joules per kilogram
IS	Iceland	J/pulse	joules per pulse
IS	information system	JCS	Joint Chiefs of Staff
ISA	Industry Standard Architecture		
ISA	inertial sensor assembly		
ISAR	inverse synthetic aperture radar		
ISAS	Institute of Space and Astronautical Science (Japan)		

JDA	Japan Defense Agency	k	magnetomechanical coupling+ factor
JDAM	Joint direct attack munition	K	Kelvin temperature
JDIS	Joint Distributed Information System	K	thousand (kilo)
JEM	Japanese Experiment Module	K-6	2,4,6-trinitro-2,4,6-triazacyclohexanone
JFCC	Japan Fine Ceramics Center	kA	kiloamperes
JHU/APL	Johns Hopkins University/Applied Physics Laboratory	kA/cm <sup>2</sup>	kiloamperes per cm <sup>2</sup>
JINR	Joint Institute of Nuclear Research	kA/ns	kiloampere per nanosecond
JMA	Japan Meteorological Agency	KAIST	Korea Advanced Institute of Science and Technology
JMAT	Joint Service Medium-Caliber Automatic Gun Technology Group	kbar	kilobar
JNLWP	Joint Nonlethal Weapons Program	kbit	kilobit
JP	Japan	kbits	kilobits per second
JP	jet propulsion	kcal kilocalorie	
JPEG	Joint Photographic Experts Group	kD	kilodaltons
JPL	Jet Propulsion Laboratory	KDN	potassium dinitramide
JPO	Joint Program Office	KE	kinetic energy
JSB	Japan storage battery	KEM	kinetic energy missile
JSF	Joint Strike Fighter	Keto-RDX	2,4,6-trinitro-2,4,6-triazacyclohexanone
JSFWC	Joint Staff Future Warfighting Capability	keV	kilo electron volt
JSLIST	Joint Service lightweight integrated suit technology	KEW	kinetic energy weapon
JSOW	Joint standoff weapon	kG	kilogauss
JSRIM	Joint Services Requirement for Insensitive Munitions	kg	kilogram
JSTARS	Joint Surveillance Target Attack Radar System	kg/dm <sup>3</sup>	kilograms per cubic decimeter
JSW	Joint standoff weapon	kg/kW	kilogram per kilowatt
JT	joule-thomson	kg/N	kilogram/Newton
JTIDS	Joint Tactical Distribution Information System	KGD	known good die
JTMD	Joint Theater Missile Defense	kHz	kilohertz
JTR	Joint Tactical Radio	kJ	kilojoule
JTRS	Joint Tactical Radio System	KKV	kinetic kill vehicle
JUXOCO	Joint Unexploded Ordnance Coordination Office	KLEXT	K-mixing, low-energy, X-ray triggering
JV	Joint Vision	km	kilometer
JWSTP	Joint Warfighting Science and Technology Plan	km/sec	kilometers per second
		kN	kilonewton
		KOH	potassium hydroxide
		KP	North Korea
		kPa	kilopascal (0.00987 atmospheres)
		Kr	krypton
		KR	South Korea

krad(Si)	kilorads (in silicon)	LB/TS	large blast/thermal simulator
KrF	krypton-fluoride	LC	liquid crystal
KRS	key recovery system	LCAC	landing craft, air cushion
KSHV	Kaposi Sarcoma HV	LCD	liquid crystal display
ksi	thousand pounds per square inch	LCI	load commutated inverter
kt	kiloton (yield)	LCP	liquid crystal polymer
kT	kiloton	LCS	laser cross section
KTA	potassium titanyl arsenate	LCt	lethal concentration time
ktap	one thousand dyne centimeters per second	LD	lethal dose
KTP	potassium titanyl phosphate	LDCs	lesser developed countries
kV	kilovolt	LE	low explosive
kV/cm	kilovolts per centimeter	LEAF	law enforcement access field
kV/m	kilovolts per meter	LEC	local exchange carrier
kV/mil	kilovolts per mil	LED	laser-emitting diode
kV/mm	kilovolts per millimeter	LED	light-emitting diode
kV/ns	kilovolts per nanosecond	LEED	low-energy electron diffraction
KW	Kuwait	LEL	low-energy laser
kW	kilowatt	LEMP	lightning electromagnetic pulse
kWe	kilowatt (electric)	LEO	low-Earth orbit
kWh/kg	kilowatt-hours per kilogram	LETI	Laboratoire d'Electronique, de Technologie de l'Information (The Electronics and Information Technology Laboratory)
l	liter	LEU	low enriched uranium
<i>L</i>	water beam attenuation length	LFC	laminar flow control
l/d	length-to-diameter	LGG	light gas gun
L/D	lift/drag	LH2	liquid hydrogen
LAAS	local area augmentation system	Li	lithium
LADAR	laser detection and ranging	Li-ion	lithium-ion
LADAR	laser radar	LICA 12	neopentyl(diallyl)oxy-tri(dioctyl) phosphato titanate
LAER	lowest achievable emission reductions	LIDAR	light detection and ranging
LAN	local area network	LIHE	laser-initiated high explosive
LANL	Los Alamos National Laboratory	LIS	laser isotope separation
LANS	local area network system	LLI	Liebheer Aerospace Lindenberg
LASER	light amplification by stimulated emission of radiation	LLL	low light level
LASERCOM	laser communications	LLLTV	low light level TV
LAV	light armored vehicle	LLNL	Lawrence Livermore National Laboratory
lb/hp-hr	pounds per horsepower-hour	LLRC	low repetition rate capacitors
lb/kW	pounds per kilowatt	LLS	laser line scanner
LBNL	Lawrence Berkeley National Laboratory		

LMDS	local multi-channel distribution service	LU	Luxembourg
LMFBR	liquid metal fast breeder reactor	LUCE	Laser Utilizing Communications Equipment
LMR	liquid metal reactor	LVIS	launch vibration isolation system
LMRS	long-term mine reconnaissance system	LWIM	low-power wireless microsensors
LMS	least mean square	LWIR	long-wave infrared
LMT	large mmW telescope	LWIR	long wavelength infrared
LNA	low-noise amplifier	LWR	laser warning receiver
LNG	liquefied natural gas	LY	Libya
LO	low observable	m	meter
LOCAAS	Low-Cost Antiarmor System	m	milli ( $10^{-3}$ )
LOCAAS	Low-Cost Autonomous Attack System	M	million; as prefix, Mega
LORAN	long-range aid to navigation	M&C	management and control
LOS	line of sight	M&S	modeling and simulation
LOSAT	line-of-sight antitank	m/sec; m/s	meters per second
LOTWG	Lasers and Optics Technology Working Group	m <sup>2</sup>	square meter
LOVA	low-vulnerability ammunition	m <sup>3</sup>	cubic meter
LOX	liquid oxygen	MA	mega-ampere
LP	liquid propellant	mA	milliampere
LPCVD	low-pressure chemical vapor deposition	MA	mobile assistant
LPD	low probability of detection	mA/cm <sup>2</sup>	milliamps per square centimeter
LPG	liquefied petroleum gas	MAB	monoclonal antibody
LPI	low probability of intercept	MABS	military application of blast simulation
LPI/LPD	low probability of intercept/low probability of detection	MAC	message authentication code
LPT	low power transceiver	MAC	modified auxiliary closure
LPTF	Laboratoire Primaire du Temps et des Fréquences	MAE	medium altitude endurance
LRC	inductor, resistor, capacitor	MAFET	Microwave and Analog Front-End Technology
LRERI	Lviv Radio Engineering Research Institute (Ukraine)	MAGIC	Multimission Advanced Ground Intelligent Control
LRF	laser range finder	MAGLEV	magnetic levitated
LRR	lower reposition rate	MAGT	MOS-assisted gate thyristor
LRU	line replaceable unit	MAJCOM	Major Command (U.S. Air Force)
LSTAT	life support for trauma and transport	MALDI	matrix-assisted laser desorption ionization
LTBT	limited test ban treaty	MAN	metropolitan area network
LTE	local thermal equilibrium	MANPADS	Man-Portable Air Defense System
LTS	low-temperature superconductivity	MAP	Microwave Anisotropy Probe
		MAPO	tris-1-(2-methyl)aziridinyl phosphine oxide

MAPS	Millimeter Wave Analysis of Passive Signature	MCT	mercury cadmium telluride
MASER	Microwave Amplification by Stimulated Emission of Radiation	MCT	Militarily Critical Technologies
MASINT	Measurement and Signature Intelligence	MCT	MOS-controlled thyristor
MAV	micro air vehicle	MCTL	Militarily Critical Technologies List
MAXRD	impedance matched X-ray diode	MCTP	Militarily Critical Technologies Program
Mb	Mega bits	MCXO	microcomputer-compensated oscillator
MB	Mega bytes	MDA	Missile Defense Agency
MBB	Messerschmitt-Bolkow-Blohm (Germany)	MDP	multidisciplinary design optimization
MBBAY	a specific X-ray blowoff code	MDS	magneto-dynamic storage
MBCS	Meteor Burst Communications System	MEA	More Electric Aircraft
MBE	molecular beam epitaxy	MEADS	Medium Extended Air Defense System
MBG	multiband gap	MED	magneto-electric dynamic
Mbit/sec	megabits/second	MEDAL	Mine Warfare Environmental Decision Aids Library
Mbps	megabytes per second	MEDEVAC	medical evacuation
MBT	main battle tank	megarad(Si)	million rads (in silicon)
Mbytes	megabytes	MEL	medium-energy laser
MC	molten carbonate	MEL-ARI	Microelectronics Advanced Research Initiative
MC-1	chemical bomb	MEM	microelectromechanical
MCA	multi-chip assembly	MEMS	microelectromechanical systems
MCAGCC	Marine Corps Air Ground Combat Center	MEO	medium-Earth Orbit
MCFC	molten carbonate fuel cell	MEO	middle Earth orbit
MCG	magnetocumulative generator	MEOMS	micro-electrooptical-mechanical systems
MCH	methylcyclohexane	MER	message error rate
MCH	methylcyclohexane	MESA	microsystems and engineering science applications
MCM	mine countermeasure	MESMA	Module d'Energie Sous-Marin Autonome
MCM	multichip module	Met	meteorology
MCM-C	multichip modules-ceramic	MET	molecular electronic technology
MCM-C/D	multichip modules-ceramic/deposited	Methyl	bis(2-methylaziridinyl)methylamino
MCM-D	multichip modules-deposited	METWG	Biomedical Technology Working Group
MCM-L	multichip modules-laminated	MeV	million electron volts
MCM-L/D	multichip modules-laminated/deposited	MFC	magnetic field compression
MCNC	Microelectronic Center of North Carolina (University)		
MCP	massively concurrent processing		
MCS	modular charge system		

MFCG	magnetic flux compression generator	MIT	Mass Technology achusetts Institute of
MFL	multiple-folded laser	MITI	Ministry of International Trade and Industry (Japan)
MFR	Multi-Function Radar	MITI	Ministry of International Trade and Industry
MFSW	medium-frequency sky wave	MJ	megajoule
MFS3	multifunction staring sensor suite	mJ	millijoule
MFTWG	Manufacturing and Fabrication Technology Working Group	ml	milliliter
Mg	magnesium	ML	Munitions List (Wassenaar Arrangement)
mg	milligram	MLC	Military Load Class
mg/cc	milligrams per cubic centimeter	MLI	midlife improvement
mg/cm <sup>2</sup>	milligrams per square centimeter	MLIS	molecular laser isotope separation
MHD	magnetohydrodynamic	MLRS	multiple launch rocket system
MHD-EMP	magnetohydrodynamic electro-magnetic pulse	MLS	microwave landing system
MHPCC	Maui High Performance Computing Center	mm	millimeter
MHz	megahertz	mm <sup>2</sup>	square millimeter
MIB	management information base	MMC	metal matrix composite
MIC	microwave integrated circuit	MMD	mass medium diameter
MICLIC	mine clearing line charge	MMH	monomethyl hydrazine
MICOM	U. S. Army Missile Command	MMIC	microwave/millimeter-wave monolithic integrated circuit
MICV	mechanized infantry combat vehicle	MMIC	miniaturized monolithic integrated circuit
MIEM	Master Information Exchange MOU (U.S.–UK)	MMIC	monolithic microwave integrated circuit
MIJ	meaconing, intrusion, jamming, and interception	mmIC	millimeter-wave IC
mil	one one-thousandth of an inch	MMM	Mesoscale and Microscale Meteorology (Division of NCAR)
MILO	magnetic insulated line oscillator	MMMW	monolithic microwave millimeter wave
MILSATCOM	Military Satellite Communications	MMST	Microelectronics Manufacturing Science and Technology
MILSPEC	military specification	MMT	Methods of Manufacturing Technologies
MILSTAR	military, strategic, tactical, and relay (satellite)	mmw	millimeter wave
MIL-STD	Military Standard	MMW	multi-megawatt
MIMP	Mesoscale Interface Mapping Project	MMWTIS	millimeter wave targeting and imaging system
min	minutes	MN	mega-newton
MIPS	million instructions per second	MNS	mine neutralization system
MIPS	multimission image processing subsystem	MOCVD	metallo organic chemical vapor deposition
MIR	mid infrared		
MIS	management information system		



MOCVD	metal oxide chemical vapor deposition	mrem	millirem
MoD	Ministry of Defence (United Kingdom)	MRI	magnetic resonance imaging
MOD	means of delivery (of WMD)	MRL	multiple rocket launcher
Modem	modulator/demodulator	MRMS	Millimeter Wave Reflectivity Measurement System
MOE	micro-optical element	mRNA	messenger ribonucleic acid
MOEMS	micro-optics-electromechanical system	MRTD	Machine-readable travel documents
MOLLE	modular lightweight load-carrying equipment	MS	marine systems
MOM	method of moment	MS	mass spectrometry
MOO	MUD, object-oriented	ms	millisecond
MOOTW	military operations other than war	MSCM	military systems, components, and materials
MOPP	mission-oriented protective posture	MSE	mobile subscriber equipment
MOPS	million operations per second	msec (ms)	millisecond
MOS	metal-oxide semiconductor	MSFC	Marshall Space Flight Center (NASA)
MOSFET	metal-oxide semiconductor field-effect transistor	MSIMD	multiple single instruction multiple data
MOTS	micro-optical table systems	MSIS	Multi-Sensor Integration System
Mots	modified off-the-shelf	MSSS	Maui Space Surveillance Site (Air Force)
MOU	Memorandum of Understanding	MSTAR	moving and stationary target acquisition radar
MOUT	military operations in urban terrain	MSTWG	Marine Systems Technology Working Group
MOVPE	metal organic vapor phase epitaxy	MSX	midcourse space experiment
MPa	megapascals	Mt	megaton
MPEG	Moving Pictures Expert Group	MT	metric ton
MPF	multipurpose fuze	MTBF	mean time between failures
mph	miles per hour	MTBOH	mean time between overhaul
MPI	mean point of impact	MTCR	Missile Technology Control Regime
MPM	microwave power modules	MTF	modulation transfer function
MPNTP	Master Positioning, Navigation, and Timing Plan	MTI	moving target indication
MPQS	multi polynomial quadratic sieve	MTO	Microsystems Technology Office (DARPA)
MPT	Ministry of Posts and Telecommunications (Japan)	Mtops	million theoretical operations per second
MPTB	microelectronics and photonics testbed	MTSAT	multifunctional transport satellite
MPTWG	Materials and Processing Technology Working Group	MTTF	mean time to failure
MPU	microprocessor unit	MUD	multiple user dimensions
MR	magnetoresistive	MURAT	Munitions à Risques Atenues
mrاد	milliradians	MV	megavolt
Mrad(Si)	million rads (in silicon)		

MV	muzzle velocity	NAV	navigation
MV/cm	megavolts per centimeter	NAVSAT	navigation satellite
MV/ns	megavolts per nanosecond	NAVSEA	Naval Sea Systems Command
MVA	megavolt-amperes	NAWC	Naval Air Warfare Center
MVRS	muzzle velocity radar system	NB	narrow band
MVS	Multiple Virtual System	NBC	nuclear, biological, and chemical
MW	megawatt	N/cm <sup>2</sup>	newtons per square centimeter
mW	milliwatt	NC	numerically controlled
mW/cm <sup>2</sup>	milliwatts per centimeter squared	NCA	national command authorities
MWCG	multiwave Cerenkov generator	NCAC	National Crash Analysis Center (George Washington University)
MWh/kg	megawatt hours per kilogram	NCAR	National Center for Atmospheric Research
MWIR	medium wavelength infrared	NCARAI	Navy Center for Applied Research in Artificial Intelligence
MWIR	midwave infrared	NCES	Net Centric Enterprise Services
MX	Mexico	NCIC	National Center for Intelligent Computing
n	nano	NCIS	National Clinical Information System
N	newton	NCMS	National Center for Manufacturing Science
N D	n-dimensional	NCP	network control point
N.B.	nota bene	NCTR	non-cooperative target recognition
N/m <sup>2</sup>	newtons per square meter	NCW	network-centric warfare
NA	numerical aperture	Nd	neodymium
Na	sodium	Nd:YAG	neodymium:yttrium aluminum garnet
NACA	National Advisory Committee on Aeronautics	NDE	nondestructive evaluation
NACC	North Atlantic Cooperation Council	NDGPS	National Differential Global Positioning System
NAD	Navy Area TBMD	NDI	nondestructive inspection
NAE	National Academy of Engineering	NDRE	Norwegian Defense Research Establishment
NAI®	Network Associates, Incorporated	NDT	nondestructive test
NAL	National Aerospace Laboratory (Japan)	NDT&E	nondestructive test and evaluation
NAMRU	Naval Medical Research Unit	NDU	non-digitized unit
NAS	National Academy of Sciences	NDUL	Nuclear Dual-Use List (NSG)
NAS	network attached storage	NE	network element
NASA	National Aeronautics and Space Administration	NE	northeast
NASDA	National Space and Development Agency (Japan)	NEDO	New Energy and Industrial Technology Development Organization
NAT	Network address translation		
NATIBO	North American Technology and Industrial Base Organization		
NATO	North Atlantic Treaty Organization		

NELS	Northern European LORAN System	NLR	National Aerospace Laboratory (Netherlands)
NEM	nanoelectromechanical	NLW	nonlethal weapon
NEMO	Naval EarthMap Observer	nm	nanometer
NEMP	nuclear electromagnetic pulse	NM	network management
NEMS	nanoelectromechanical systems	NMD	National Missile Defense
NEP	noise equivalent power	nmi	nautical mile
NEPE	nitrate ester plasticized polyether	NMIH	nickel metal hydride
NETD	noise-equivalent temperature difference	NMMO	3-nitratomethyl-3-methyloxetane
NF	New Forum	NMP	New Millenium Program
NFS	Network File System	nmph	nautical miles per hour
NFS	number field sieve	NMR	nuclear magnetic resonance
NG	nitroglycerin	NMRCI	National Microelectronics Research Centre, Ireland
NGA	National Geospatial-Intelligence Agency	NMRS	Near-Term Mine Reconnaissance System
NGIC	National Ground Intelligence Center	NNI	National Nanotechnology Initiative
NGL	next-generation lithography	NNWS	non-nuclear weapons states
nH/A	nanohenries per ampere	NO	Naval Operations
nHz	nanohertz	NO	Norway
Ni	nickel	NOAA	National Oceanic and Atmospheric Administration
NIC	network interface card	NOC	network operations center
NIH	National Institutes of Health	NOCINCO	China North Chemical Industries Corporation
NIIRS	National Imagery Interpretability Rating Scale	NOEL	Nonlinear Electronics Laboratory
NIJ	National Institute of Justice	NOL	Naval Ordnance Laboratory
NIMA	National Imagery and Mapping Agency	NONA	nonanitroterphenyl
NIMH	nickel metal hydride	NOS	network operations centers
NIMIC	NATO Insensitive Munitions Information Center	NOSC	Naval Ocean Systems Center
NIR	near infrared	NOx	oxides of nitrogen
NIRIM	National Institute for Research in Inorganic Materials	NOx	nitrogen oxide
NIS	Network Information Services	NP	neutral particle
NIST	National Institute of Standards and Technology	NP	nonproliferation
NJIT	New Jersey Institute of Technology	NPB	neutral particle beam
nK	nanokelvin	NPT	Nuclear Non-Proliferation Treaty
NL	Netherlands	NQ	nitroguanidine
NLO	nonlinear optical	NQR	nuclear quadrupole resonance
		NRAC	Naval Research Advisory Committee
		NRC	National Research Council
		NRC	National Response Center

NRC	Nuclear Regulatory Commission	NV	night vision
NRDEC	Natick Research, Development and Engineering Center	NVG	night vision goggles
NRL	Naval Research Laboratory	NVLAP	National Voluntary Laboratory Accreditation Program
NRO	National Reconnaissance Office	NVS	night vision system
NRT	near real time	NWC	Naval Weapons Center
NS	nuclear systems	NWE	nuclear weapons effects
NS&E	nanoscale science and engineering	NWES	nuclear weapons effects simulation
NSA	National Security Agency	NWS	nuclear weapons state
NSAN	nonstabilized ammonium nitrate	NZ	New Zealand
NSC	Natick Soldier Center (U.S. Army)		
nsec (ns)	nanosecond	O&M	operation and maintenance
NSF	National Science Foundation	O&S	operation and support
NSG	Nuclear Suppliers Group	O <sup>2</sup> -I	oxygen iodine
NSIAD	National Security and International Affairs Division	OASDSOLIC	Office of the Assistant Secretary of Defense for Special Operations and Low-Intensity Conflict
NSLS	National Synchrotron Light Source		
NSOM	nearfield optical scanning microscopy	OAV	organic air vehicle
NSRC	Naval Surface Research Center	OC	optical carrier
NSTC	National Science and Technology Council	OCAR	Office of Crash Avoidance Research
		OCCM	optical counter-countermeasures
NSTWG	Nuclear Systems Technology Working Group	OCM	optical countermeasures
NSWC	Naval Surface Warfare Center	OCR	Optical character reader
nT	nanotesla	OCR	organic cooled reactor
NTA	Network Address Translation	Octal	aluminum octadecanoate
NTI/O	nontraditional input/output	Octal	HMX/TNT mixtures
NTL	Nuclear Trigger List (supplement of NSG)	ODP	oxygen depleting potential
NTO	nitrogen tetroxide	OE	opto-electronics
NTO	3-nitro-1,2,4-triazol-5-one	OEIC	optoelectric integrated circuit
NTRS	National Technology Roadmap for Semiconductors	OFHC	oxygen-free high conductivity
		OI	optical interconnection
NTT	Nippon Telephone and Telegraph Corporation	OICETS	Optical Inter-orbit Communications Engineering Test Satellite
		OJT	on-the-job training
NTTC	National Technology Transfer Center (NASA)	OLAP	on-line analytical processing
		OLE	object linking and embedding
NTW	Navy Theater Wide	OLETC	Office of Law Enforcement Technology Commercialization
NUDET	nuclear denotation		
NUST	National University of Sciences and Technology (China)	OLTP	on-line transaction processing
		OMV	orbit maneuvering vehicles
NUWC	Naval Undersea Warfare Center	ONERA	Office National d'Études et de Recherches Aérospatiale

ONR	Office of Naval Research	PB	particle beam
ONTA	3-nitro-1,2,4-triazol-5-one	PBAA	polybutadiene-acrylic acid
OODA	observe-orient-decide-act	PBAN	polybutadiene-acrylic acid-acrylonitrile
OOT	object-oriented technologies	PbS	lead sulphide
OOTW	operations other than war	PbSe	lead selenide
OPC	optical proximity correction	PbSnTe	lead tin telluride
OPO	optical parametric oscillator	PBV	post-boost vehicle
OPR	Office of Primary Responsibility	PBW	power by wire
OPSEC	operations security	PBX	plastic-bonded explosive
ORASIS	Optical Real-Time Adaptive Signature Identification System	PC	personal computer
ORD	operational requirements document	PCB	printed circuit board
ORNL	Oak Ridge National Laboratory	PCN	polycrystalline cubic boron nitride
ORU	operational resource unit	PCDE	polycyanodifluoroamino-ethyleneoxide
O/S	Operating System	PCL	passive coherent location
OSD	Office of the Secretary of Defense	pCLC	polymeric cholesteric liquid crystal
OSCE	Organization for Security and Cooperation in Europe	PCMCIA	Personal Computer Memory Card International Association
OSHA	Occupational Safety and Health Administration	PCR	polymerase chain reaction
OSI	open systems interconnection	PCRC	photochemical reaction system
OSL	optically stimulated luminescence	PCS	personal communications system
OSP	Orbital/Sub-Orbital Program	PCSS	photoconductive solid-state switching
OTH	over the horizon	PD	photo detectors
OTM	on the move	PDA	Personal data assistant
OTS	off the shelf	PDA	pulsed disk alternator
OTV	orbital transfer vehicle	PDE	pulse-detonation engine
P	phosphide	PDL	Page Description Language
P2P	Peer-to-peer	PDMS	polydimethylsiloxane
Pa	pascal	PE	piezoelectric
PA	phosphoric acid	PEBB	power electronic building block
Pa/s	pascals per second	PEFC	polymer electrolyte fuel cell
PAC-3	Patriot Advanced Capability-3	PEFC	proton exchange fuel cell polymer electrolyte fuel cell
PAFC	phosphoric acid fuel cell	PEIP	programmable embeddable INFOSEC product
PAHO	Pan-American Health Organization	PEK	polyether ketone
PAI	pathogenicity island	PEM	proton exchange membrane
PALs	permissive action links	PEMFC	proton exchange membrane fuel cell
PAM	penetration-augmented munition	PEMS	pico-electromechanical systems
PAR	precision approach radar	PET	positron emission tomography
Patriot	Phased Array Tracking Intercept on Target		

PET	pulsed electrothermal	POTS	plain ordinary telephone system
PETN	pentaerythritol tetranitrate	ppb	parts per billion
PEX	paste extrudable explosive	ppm	parts per million
PFN	pulse-forming network	PPM	proton precession magnetometer
PFPAE	perfluorinated polyalkyl ether	PPS	precise positioning service
PGM	An end-user program	pps	pulses per second
PGM	precision-guided munition	ppt	parts per trillion
PGN	polyglycidyl nitrate	PPT	pulsed plasma thruster
PGP	Pretty Good Privacy	PRBG	pseudo-random bit generator
PGU	power-generation unit	PRC	People's Republic of China
PH	Philippines	PRC	photochemical reaction center
PHLASH	Phone Home Link for Autonomous Spacecraft Handling	PRCS	photochemical reaction center synthesis/structure
PHM	Prognostics and Health Management	PRD	pinch reflex diode
PIN	personal identification number	PRF	pulse repetition frequency
PIN	positive-intrinsic-negative diode	PRNG	Pseudo-random number generator
PIO	pilot-induced oscillation	PROM	programmable read-only memory
PIR	passive infrared	PRPB	Propulsion Directorate/Battery Branch
PIV	Particle-Imaging Velocimetry	PRS	plasma radiation source
PK	Pakistan	ps	picosecond
PKI	public key infrastructure	PSA	pressure swing absorption
PL	Poland	PSAC	performance-seeking aircraft control
PLGR	Precision Lightweight GPS Receiver	PSAM	phase-stabilized ammonium nitrate
PM	permanent magnet	PSD	power spectral density
PM	phase modulation	psf	pounds per square foot
PM	photomultiplier	psi	pounds per square inch
PM	Program Manager	psia	pounds per square inch absolute
PMC	polymer matrix composite	psig	pounds per square inch gauge
PMT	photomultiplier tube	PSM	phase-shifting masks
PNT	positioning, navigation, and time	PSO	peace support operation
PNTP	precision network time protocol	PSP	plasma separation process
PNTWG	Positioning, Navigation, and Time Technology Working Group	PSVN	public switched voice networks
POE	point of entry	PT	Portugal
POF	plastic optical fibers	PTD	physical theory of diffraction
poly-GLYN	poly(nitratromethyloxirane)	PT&F	precise time and frequency
POS/NAV	position/navigation	PTI	precision targeting identification
POSITIME	position and time	PTR	photo-thermo-refractive
POSTECH	Pohang University of Science and Technology (South Korea)	PtSi	platinum silicide
		PTT	postal, telephone, and telegraph

PTTI	precise time and time intervals	RADAR	radio detecting and ranging
Pu	plutonium	rads	radiation absorbed dose
PUREX	plutonium uranium recovery by extraction	RADX	cyclotri-methylenetrinitramine
PV	photovoltaic	RAID	random array of independent devices
PV/W	pressure-volume/weight	RAID	rapid assessment and initial detection
PVC	polyvinyl chloride (H <sub>2</sub> CCHCl) <sub>x</sub>	RAID	redundant array of independent disks
PVD	physical vapor deposition	RaLa	radioactive lanthanum
PVF <sub>2</sub>	polyvinylidene fluoride	RAM	radar absorbing materials
PVP	polyvinylpyrrolidone	RAM	random access memory
PW	penetrating weapon	RAMICS	rapid airborne mine clearance system
PWM	pulse width modulation	RAP	rocket-assisted projectile
PWR	pressurized water reactor	RAS	Russian Academy of Sciences
PWSC	preferred weapon system concept	RAS	radar-absorbing structure
PYX	picrylaminodinitropyridine	RASER	Research and Seeker Emulation Radar
PZT	lead zirconate titanate	RBG	random bit generation
Q	a figure of merit for a resonant circuit	RBLOS	regional beyond-line-of-sight
Q&A	question and answer	RBMK	(Russian) high-power pressure-tube reactor
QA/QC	quality assurance/quality control	RC	resistance-capacitance
QAM	quadrature amplitude modulation	RC	Ron's Code
QC	quality control	RCA	Radar for Collision Avoidance
QD	quantum dot	RCM	reciprocating chemical muscle
QED	quantum electrodynamics	RCRA	Resource Conservation and Recovery Act
QIP	quantum information processing	RCS	radar cross section
QIPC	quantum information processing/communication	RD&E	research, development, and engineering
QKD	Quantum key distribution	RDA	representational difference analyses
QNOS	quantum nano-optics of semiconductors	RDC	relative dielectric constant
QW	quantum well	RDEC	Research, Development, and Engineering Center
QWIP	quantum well infrared photodetector	RDF	Rapid Deployment Force
R	range	RDG	relativistic diffraction generator
R&D	research and development	RDT&E	research, development, test, and evaluation
R/W	read/write	RDX	cyclotri-methylenetrinitramine
RA	Registration Authority	RESTORE	Reconfigurable Systems for Tailless Fighter Aircraft
rad hard	radiation hardened		
rad(Si)	radiation absorbed dose (in silicon)		
rad(Si)/sec	rads (si) per second		

RET	resolution enhancement techniques	RSC	Rocket Space Corporation (Russia)
REVCON	Revolutionary Concepts (NASA project)	RSCAAL	remote sensing chemical agent alarm
RF, r f	radio frequency	RSMD	radar sensor for maintaining the distance
rf/mmW	Radio Frequency/Millimeter Wave (Facility)	RSST	rapid synthesis and simulation tool
RFC	request for comments	RSTA	reconnaissance, surveillance, and target acquisition
RFI	radio frequency interference	RSVP	reduced ship's crew by virtual presence
RFID	radio-frequency identification	RTD	resonant tunneling diodes
RFP	Request for Proposal	RTG	radioisotope thermoelectric generators
RFQ	radio frequency quadruple	RTI	run-time infrastructure
RHA	rolled homogeneous armor	RTK	real-time kinematic
RIAA	Recording Industry Association of American	RTTY	radio teletype
RIE	reactive ion etching	RU	Russia
RIMMP	radar instrument for measurement of land vehicle movement parameters	RV	reentry vehicle
RISC	reduced instruction set computers	RV	remote vehicles
RKA	relativistic klystron amplifier	RW	Rabin-Williams
RKA	Russian Space Agency	RW	rotary wing
RLG	ring laser gyroscope	RWC	real-world computing
RLV	reusable launch vehicle	s	second
RMP	reprogrammable microprocessor	S	siemen (unit of electrical conductivity)
RMS	remote minehunting system	S&H	survivability and hardening
rms	root mean square	S&R	search and rescue
RNA	ribonucleic acid	S&T	science and technology
RNG	Random number generator	S&TW	surveillance and threat warning
RO	reverse osmosis	S/A	selective availability
RO	Romania	S/cm	siemens per centimeter
ROC	receiver operating characteristic	S-HTTP	Secure HTTP
ROC	Taiwan – Replic of China	S/m	siemens per meter
ROE	rules of engagement	S/N	signal to noise (ratio)
ROIC	readout integrated circuit	SA	Saudi Arabia
ROM	read-only memory	SA	situational awareness
ROV	remotely operated vehicles	SA/CID	situational awareness/combat identification
RPC	Remote procedure call	SAA	South Atlantaic Anomaly
RPG	rocket-propelled grenade	SABER	situational awareness beacon with reply
RPM	rapid prototype manufacturing	SABRE	shallow water assault breaching
RPM, rpm	revolutions per minute		
RPV	remotely piloted vehicle		
RSA	Rivest, Shamir, Adelman		



SACLOS	semi-automatic command to line of sight	SCI	Sensitive Compartmented Information
SACMA	Suppliers of Advanced Composite Materials Association	SCM	scanning capacitance microscopy
SADARM	sense and destroy armor	SCM	systems, components, and materials
SADL FAC	situational awareness data link forward air controller	SCO	split cavity oscillator
SAE	Society of Automotive Engineers	SCPE	simplified collective protection equipment
SAF	safing, arming, and fuzing	SCPS	Space Communication Protocol Standard
SAFER	secure and fast encryption routine	SCR	silicon controlled rectifier
SAFF	safing, arming, fuzing, and firing	Scramjet	supersonic combustion ramjet
SAFOR	semi-automated forces	SCSI	small computer system interface
SAM	self-assembling membrane	SCSI	Society for Computer Simulation International
SAM	surface-to-air missile	SCTWG	Signature Control Technology Working Group
SAMPEX	Solar Anomalous and Magneto-spheric Particle Explorer	SCUBA	self-contained underwater breathing apparatus
SAN	storage area network	SCUD	western name for early Soviet missile system
SAR	search and rescue	SDH	synchronous digital hierarchy
SAR	synthetic aperture radar	SDI	strategic defense initiative
SAS	Survivable Adaptive System	SDIO	Strategic Defense Initiative Organization
SATCOM	communication satellite	SDN	software defined network
SAW	surface acoustic wave	SDO	State Design Office (Ukraine)
Sb	antimony (stibium)	SDT	spin-dependent tunneling
SBCCOM	U.S. Army Soldier and Biological Chemical Command	SE	spontaneous emission
SBEON	space-based electro-optical network	SE	static electric
SBIR	Small Business Innovation Research	SE	Sweden
SBIR	small business innovative research	SEE	single event effect
SBIRS	Space-Based Infrared System	SE&I	systems engineering and integration
SBL	space-based laser	SEA	statistical energy analysis
SBR	space-based radar	sec	second
SBU	Sensitive, but UNCLASSIFIED	SECOMS	satellite EHF communications for mobile multimedia services
SBV	space-based visible	SEFI	single-event fault-interrupt
SC	single crystal	SELEX	systemic evolution of ligands by exponential enrichment
SCADA	supervisory control and data acquisition system	SELT	sheet-explosive loading technique
SCALPEL	scattering with angular limitation projection electron-beam lithography	SEM	scanning electronic microscope
SCDE	simplified collective detection equipment		
SCGT	simple-cycle gas turbine		

SEMI	Semiconductor Equipment and Materials International	SIMOX	separation by the implantation of oxygen
SEP	Société Européenne de Propulsion	SiN	silicon nitride
SEP	spherical error probable	SINCGARS	single-channel ground and airborne radio system
Sep	system enhancement package	SINS	ships inertial navigation systems
SES	surface effect ships	SiO <sub>2</sub>	silicon dioxide
SET	single electron tunneling	SiOC	silicon oxycarbide
SET	single event transients	SIP	SINCGARS Improvement Program
SET	synchronizing enabling technologies	SIPE	soldier integrated protective ensemble
SETWG	Sensors Technology Working Group	SIPRNET	Secret Internet Protocol Router Network
SEU	single-event upset	SIS	signal in space
SEV	surface-effect vehicles	SIT	silicon intensified target
SF	superfluorescence	SK	Slovakia
SFAP	space-frequency adaptive processor	SKIPPER	a specific lagrangian ground motion code
SFC	specific fuel consumption	SLAC	Stanford Linear Accelerator
SFODB	Spaceborne Fiber-Optic Data Bus	SLAM	selectable lightweight attack munition
SG	Singapore	SLAM	standoff land attack missile
SGC	Security Classification Guide	SLAR	side-looking airborne radar
SGEMP	system-generated electromagnetic pulse	SLM	spatial light modulator
SGML	Standard Graphics Markup Language	SLOC	sea line of communication
SHA-1	secure hashing algorithm	SLR	satellite laser ranging
SHF	super-high frequency	SLS	side-looking sonar
SHORAD	Short-Range Air Defence	SLUFAE	surface-launched fuel air explosive
SHPL	super high power laser	SLV	space-launch vehicle
Si	silicon	SMA	shape memory alloy
SI	Système Internationale d'Unités (The International System of Units)	SMART	Smart Materials Actuated Rotor Technology
SIA	Semiconductor Industry Association	SMC	Space and Missile Systems Center (U.S. Air Force)
SiC	silicon carbide	SMC/T&E	Space and Missile Systems Center Test and Evaluation Directorate
SiGe	silicon germanium	SMI	structure of management information
SiGeB	silicon-germanium boron	SMNP	simple management network protocol
SiGeC	silicon-germanium carbon	SMP	shape memory polymer
SIGINT	signals intelligence	SMP	symmetrical multiprocessor
SILEX	Semiconductor Laser Intersatellite Link Experiment	SMPT	Simple Mail Transport Protocol
SIM	Subscriber identity module	SMR	specialized mobile radio
SIMD	single instruction, multiple data		

SMS	system management system	SPM	scanning probe microscopy
SN	sensors and navigation	SPO	System Program Office
SNL	Sandia National Laboratory	SPOD	seaport of debarkation
SNM	special nuclear material	SPOT	Satellite Pour l'Observation de la Terre
SNMP	simple network management protocol	SPP	security practices policy
SNPE	Société Nationale des Poudres et Explosifs	SPS	Standard Positioning Service
SNR	signal-to-noise ratio	SQC	statistical quality control
SO	solid oxide	SQUID	superconductive quantum interference device
SOA	safe operating area	SR	Slovak Republic
SOF	Special Operations Force	SR-12	ammonium dinitramide
SOFC	solid oxide fuel cell	SRA	shop-replaceable assembly
SOFRADIR	Société Française de Détecteurs Infrarouge	SRAM	short-range attack missile
SOHO	small office/home office	SRAM	static random access memory
SOI	silicon on insulator	SRBM	short-range ballistic missile
SONET	synchronous optical network	SREMP	source region electromagnetic pulse
SOS	Secure operating system	SRS	stimulated Raman scattering
SOS	silicon-on-sapphire	SRTM	Shuttle Radar Topography Mission
SOTV	solar orbit transfer vehicle	SS	signaling system
SP	self propelled	SS	space system
SP	solid propellant	SSA	Ship Support Agency
SP	Special Publication	SSA	solid-state amplifier
SP	Spain [ES - (ISO)]	SSB	conventional-powered ballistic missile submarine
SPA	Software Publishers Association	SSB	single sideband
SPAWAR	Space and Naval Warfare Systems Command	SSBN	submarine ballistic missile nuclear
SPD	severe plastic deformation	SSDC	Space and Strategic Defense Command (U.S. Army)
SPDT	single point diamond turning	SSG	conventional-powered guided missile submarine
SPE	synchronous payload envelope	SSGN	nuclear-powered guided missile submarine
SPECT	single photon emission computerized tomography	SSK	conventional-powered attack submarine
SPEEDES	synchronous parallel environment for emulation and discrete-event simulation	SSL	Secure Sockets Layer
SPES	synchronous payload envelopes	SSM	semi-solid metalworking
SPF/DB	superplastic forming/diffusion bonding	SSME	Space Shuttle Manned Explorer
SPFC	solid polymer electrolyte fuel cell	SSN	submarine, nuclear attack
SpG	specific gravity	SSNS	solid-state navigation system
SPH	smoothed particle hydrodynamics	SSOP	shrink small outline package
SPLAT	spray lead at target	SSR	secondary surveillance radar

SST	supersonic transport	T&E	test and evaluation
SSTO	single-stage-to-orbit	T, P, and I	test, production, and inspection
SSTWG	Space Systems Technology Working Group	T/P	TOPEX/POSEIDON
STANAG	standardization agreement	T/R	transmit and receive
STAP	space-time adaptive processor; space-time adaptive processing	T/S	Teraflops per second
STFD	spatial time-frequency distribution	T/T	transceiver
STIO	Space Technology Integration Office	T/W	thrust-to-weight (ratio)
STM	scanning tunneling microscope	TacMedCS	Tactical Medical Coordination System
STM	synchronous transport module	TACMS	Tactical Missile System
STO	science and technology objective	TACOM	Tank-Automotive and Armaments Command (U.S. Army)
STO	scientific technology objective	TADIL	tactical data information link
STOL	short takeoff and landing	TADMUS	tactical decision-making under stress
STOM	ship-to-objective maneuver	TAGN	triaminoguanidinenitrate
STOW	synthetic theater of war	TAIW	tetraacetyldibenzylhexaazaiso-wurtzitane
STP	solar thermal propulsion	TAPS	tunnel and pipe seal
STP	standard temperature and pressure	TARDEC	Tank Automotive Research, Development, and Engineering Command
STRICOM	U.S. Army Stimulation, Training, and Instrumentation Command	TARFS	three axis of rotation flight simulator
STS	Satellite Tracking System	TAS	thallium arsenic selenide
STS	stockpile-to-target sequence	TASER	Tom A. Swift's Electric Rifle
STS	synchronous transport signal	TAT	1,3,5,7-tetraacetyl-1,3,5,7-tetra-azacyclooctane
STTR	small business technology transfer program	TATB	triaminotrinitrobenzene (high-temperature explosive)
STW	Surveillance and Threat Warning	TAV	transatmospheric vehicle
SUNY	State University of New York	TB	tuberculosis
SURTASS	surveillance towed array sensor systems	TBC	thermal barrier coating
SUSOPS	sustained operations	TBM	theater ballistic missile
SWAS	small water plane area ship	TBMD	theater ballistic missile defense
SWATH	small waterplane area twin hull	TBN	tactical ballistic missile
SWIFT	Society for Worldwide Interbank Financial Telecommunications	TBP	tri-n-butyl-phosphate
SWIR	short wavelength infrared	Tc	critical temperature
SwRI	Southwest Research Institute	Tc	superconducting temperature (high Tc = 77 K, low Tc = 4 K)
SWS	subwavelength structured	T <sup>c</sup>	transition temperatures
SY	Syria	Tc	transmit clock/telemetry combiner
T	tesla	TCM	trajectory correctable munition
t	ton		
T	tritium		

TCP/IP	transmission control protocol/ internet protocol	TFT	thin-film transistor
TCSEC	trusted computer system evaluation criteria	T <sub>g</sub>	glass transition temperature
TCT	time-critical targeting	TGSM	terminally guided submunition
TCXO	temperature-compensated crystal oscillator	TH	Thailand
TDA	time to double amplitude	THAAD	Theater High-Altitude Area Defense
TDD	target detection device	ThAD	tetranitrotetraaradecalin
TDEA	triple data encryption algorithm	THEL	tactical high-energygyaser
TDES	Triple Data Encryption Standard	THz	terahertz
TDI	time delay and integration	TI	target identification
TDM	time division multiplexing	TI	thermal imaging
TDMA	time division multiple access	Ti	titanium
TDOA	time difference of arrival	TID	total incident dose
TDRI	Technical Research and Development Institute (Japan)	TIR	total indicated reading
TDRSS	Tracking and Data Relay Satellite System	TIS	total integrated scattering
Te	telluride	TIS	trusted information system
TE	thermoelectric	TLD	thermoluminescent dosimetry
TE	transverse electric	TLE	target location error
TEGDN	triethyleneglycoldinitrate	TLGC	transfer line gas chromatography
TEL	transporter/erector launcher	TM	transverse magnetic
TEM	transmission electron microscopy	TMD	Theater Missile Defense
TEM	transverse electromagnetic	TMN	telecommunication management network
TEMPEST	transient electromagnetic pulse emanations standard	TMP	trimethylol propane
TEPAN	tetraethylenepentamine- acrylonitrile	TMS	thermomechanical shock
TEPANOL	tetraethylenepentamine- acrylonitrileglycidol	TN	thermonuclear
TE-PVD	thermal evaporation—physical vapor deposition	TN	Tunisia
TERCOM	terrain contour matching	TNAD	1,4,5,8-tetranitro-1,4,5,8-tetra- azadecalin
TERM-KE	tank extended range munition- kinetic energy	TNAZ	1,1,3-trinitroazetidine
TERPROM	terrain profile matchup	TNEOC	polynitroorthocarbonate
TES	Tactical Exploitation System	TNGU	tetranitroglycoluril
Tetryl	trinitro-phenylmethylnitramine	TNO	Nederlandse Organisatie Voor Toegepast Natuurwetenschappelijk Onderzoek (The Netherlands Organization for Applied Scientific Research)
TEU	technical escort unit	TNO-PML	The Netherlands Organization for Science and Technology—Prins Maurits Laboratory
TeV	tera electron volt	TNPDU	tetranitropropanediurea
TFC	transverse field compensation	TNT	trinitrotoluene
		TOC	tactical operations center

TOPS	total object processing system	TV	television
Torr	pressure equivalent of 1 millimeter of mercury	TVC	thrust vector control
TOW	tube-launched, optically tracked, wire-guided (antitank missile)	TVOPA	(tris vinoxyp propane adduct) 1,2,3-tris(1,2-bis(difluoro-amonio)ethoxy)propane
TPB	triphenyl bismuth	TVSS	toroidal volume search sonar
TPL	towed pinger locator	TW	Taiwan
TPP	theoretical peak performance	TW	terawatt
TPV	thermophotovoltaics	TW	throw weight
TR	target recognition	TW	toxin weapon
TR	transition radiation	TWG	Technology Working Group
TR	Turkey	TWT	traveling wave tube
TRACER	Tactical Reconnaissance Armoured Combat Equipment Requirement	U	uranium
TRADOC	U.S. Army Training and Doctrine Command	UA	Ukraine
TRANET	Transit Network (U.S. Navy)	UAV	unmanned aerial vehicle
TRANSEC	transmission security	UAV	unmanned air vehicle
TRAPATT	trapped plasma avalanche transit-time triode	UCAR	University Corporation for Atmospheric Research
TREE	transient radiation effects on electronics	UCAV	uninhabited combat air vehicle
TRIGAT	Tri-lateral Antitank Guided Weapon	UDMH	unsymmetrical dimethyl hydrazine
TRI-TAC	Tri-Services-Tactical Communications	UDP	user datagram protocol
TRMA	traceability, reliability, maintainability, and availability	UEP	underwater electric potential
TRMM	Tropical Rainfall Measuring Mission (NASA satellite)	UF <sub>6</sub>	uranium hexafluoride
TRP	Technology Reinvestment Program	UFCV	ultra-fast closing valve
TSA	temperature swing adsorption	UFPA	Universidade Federal do Pará (Brazil)
TsAGI	Russian Central Aero- and Hydrodynamic Institute	UGS	unattended ground sensors
TSOP	thin small outline package	UGS	unattended ground systems
TSR	thermostructural response	UGT	underground testing
TSS	telecommunications system sector	UGV	unmanned ground vehicle
TT&C	telemetry tracking and controls	UGWET	underground nuclear weapons effects test
TTO	Technology Transition Office	UGWET	underground weapons evaluation and testing
TTP	tactics, techniques, and procedures	UHCA	ultrahigh-capacity airliner
TTP	trusted third party	UHF	ultrahigh frequency
TUGV	tactical unmanned ground vehicle	UHV	ultrahigh vacuum
Tupolev ANTK	A.N. Tupolev Scientific and Technological Aviation Complex	UK	United Kingdom
		ULSI	ultra-large-scale integration
		UN	United Nations
		UNDEX	underwater explosion

uPa/g	micropascal per gram	V-A	volt-ampere
UPC	unit processing code	VBAD	Vehicle Blinde d'Appui
UPS	uninterruptible or uninterrupted power supply	VCEI	Virtual Card Edge Interface
UPS	uninterruptible power system	VCN	voice communications network
URL	Uniform Resource Locator	VCR	videocassette recorder
USA	U.S. Army	VCSEL	vertical cavity surface emitting laser
USAF	U.S. Air Force	VDD	voltage drain drain
USAMRIID	United States Army Medical Research Institute of Infectious Diseases	VE	Venezuela
USARTTC	U.S. Army Redstone Technical Test Center	VEMASID	vehicle magnetic signature duplicators
USASMDC	United States Army Space and Missile Command	VETRONICS	vehicle electronics
USB	Universal Serial Bus	VHF	very high frequency
USCG	U.S. Coast Guard	VHN	Vickers hardness
USD (AT&L)	Under Secretary of Defense for Acquisition, Technology, and Logistics	VHSIC	very high-speed integrated circuit
USG	United States Government	VIS	visible
USMC	United States Marine Corps	VLCI	vehicle limiting cone index
USML	United States Munition List	VLCT	very large commercial transport
USN	U.S. Navy	VLF	very low frequency
USNO	United States Naval Observatory	VLSI	very large-scale integrated
USSPACECOM	United States Space Command	VLSI	very large-scale integration
USSR	Union of Soviet Socialist Republics	VLWIR	very long-wave infrared
USW	undersea warfare	VM	Virtual Machine
UTC	coordinated universal time	VMF	variable message format
UTD	uniform theory of diffraction	VMS	Multiple Virtual System
UTS	ultimate tensile strength	VMS	vehicle management system
UUV	unmanned underwater vehicle	VN	Vietnam
UV	ultraviolet	VNL	Virtual National Laboratory
UWB	ultra-wideband	VOC	volatile organic compounds
UXGA	ultra extended graphics array	VOR	very-high-frequency omni-directional range
UXO	unexploded ordnance	VPB	vacuum power booster
V Agents	nerve agents	VPI	vertical plane imaging
V	volt	VPN	virtual private network
V&V	verification and validation	VR	virtual reality
V/m	volts per meter	VSAT	very-small-aperture terminal
V/sec	volts per second	VSHORAD	Very Short-Range Air Defence
		VTOL	vertical takeoff and landing
		VTR	video tape recorder
		VUV	vacuum ultraviolet
		VVA	verification, validation, and authentication

VWF	variable message format	WST	Weapons Systems Technologies
VX	chemical nerve agent	WTC	Worldwide Technology Capability
		WTEC	World Technology Evaluation Center
W	watt	WWAN	Wireless Wide Area Network
W/cm <sup>2</sup>	watts per square centimeter	WWI	World War I
W/in	watts per inch	WWMCCS	Worldwide Military Command and Control System
W/kg	watts per kilogram	WWW	Worldwide Web
W/L	watt per liter		
W/s	watts per second	X9	ANSI Financial Service
WA Cat	Wassenaar Arrangement—Dual-Use List Category	X9F1	ANSI Financial Service, Cryptographic Standards and Tools Working Group
WA ML	Wassenaar Arrangement—Munitions List		
WA	Wassenaar Arrangement	XCBF	XML Common Biometric Format
WAAS	wide-area augmentation system	XML	Extensible Markup Language
WAM	wide-area mine	XO	crystal oscillator
WANS	wide-area network system	XOR	Exclusive-OR
WAS	wide-area search	XPS	photoelectron spectroscopy
WB	wide band	XTE	X-ray Timing Explorer
WCS	wearable computer system		
WDDI	wire-distributed data interface	YAG	yttrium/aluminum garnet
WDM	wavelength division multiplexing	YBCO	yttrium barium copper oxide
We/kg	watts (electric) per kilogram	YSGG	yttrium scandium gallium garnet
WET	weapons effects test		
WETWG	Weapons Effects and Counter-measures Technology Working Group	Z	atomic number
		ZA	South Africa
WGS	World Geodetic System	ZCS	zero current switching
w-h/kg	watt-hour per kilogram	ZGP	zinc germanium phosphide
WHO	World Health Organization	Zn	zinc
Whr/kg	watt-hour per kilogram	ZNP	zero-knowledge proofs
Whr/L	watt-hour per liter	ZnS	zinc sulfide
WII	world information infrastructure	ZnSe	zinc selenide
Wi-Fi	Wireless fidelity	ZrF <sub>4</sub>	zirconium fluoride
WLAN	Wireless Local Area Network	ZVS	zero voltage switching
WMD	weapons of mass destruction		
WORM	write once/read many		
WP	white phosphorus		
WPAFB	Wright-Patterson Air Force Base		
WRA	weapon replacement assembly		
WSMR	White Sands Missile Range		
WSQ	wavelet scalar quantization		